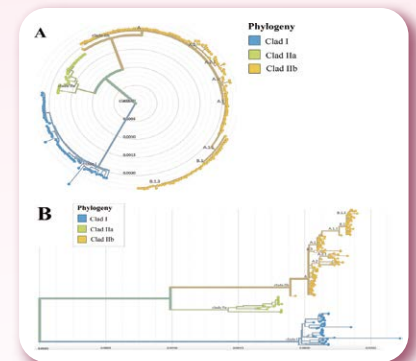


Rapid Detection of Monkeypox Virus Using Real-Time PCR

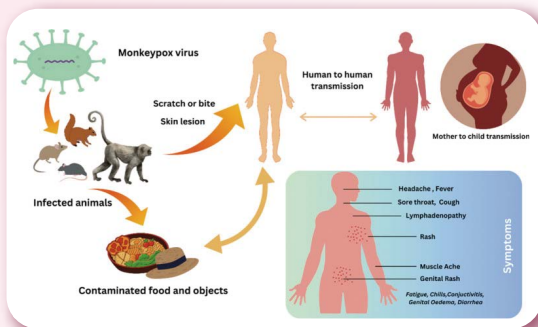
What is Monkeypox?

Monkeypox, caused by the monkeypox virus (MPXV), typically presents with a skin rash or mucosal lesions, and is often accompanied by fever, headaches, fatigue, and swollen lymph nodes.

The monkeypox virus has two major clades: the case fatality rate for the West African branch (Clade II) is about 3.6%, while it is as high as 10.6% for the Central African branch (Clade I).



Phylogenetic lineage(A) and distribution(B) of MPXV
Source: DOI:10.1016/j.imj.2023.11.001



Transmission pathways of MPXV

How is Monkeypox Transmitted?

Animal-to-human transmission: The virus is often transmitted through direct contact with the blood, bodily fluids, skin lesions, or mucosal membranes of infected animals.

Human-to-human transmission: It is mainly transmitted by close contact, droplet transmission and mother-to-child transmission.

Zeesan Monkeypox Virus Detection

Features



Monkeypox Virus Test Kit

Sanity-2 Monkeypox Virus Test Kit



High Specificity:

Targets two distinct genes (F3L & N3R) of the MPXV genome, ensuring exclusive identification of the monkeypox virus, and provides comprehensive coverage to prevent missing detections.

High Sensitivity:

Limit of detection is as low as 200 copies/mL.

Flexible Compatibility:

Compatible with common real-time PCR thermal cyclers.

Workflow

Option 1 High-Throughput Solution



Automated Nucleic Acid Extraction



Real-Time PCR Detection
(As fast as 40 minutes)

Real-Time PCR System

- Bio-Rad CFX96
- ABI 7500
- Roche LightCycler 480
- Zeesan SLAN qPCR
- BMS Mic Real Time PCR Cycle



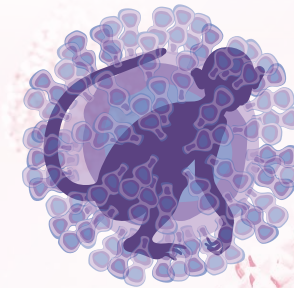
Data Analysis

Option 2 Integrated Workflow



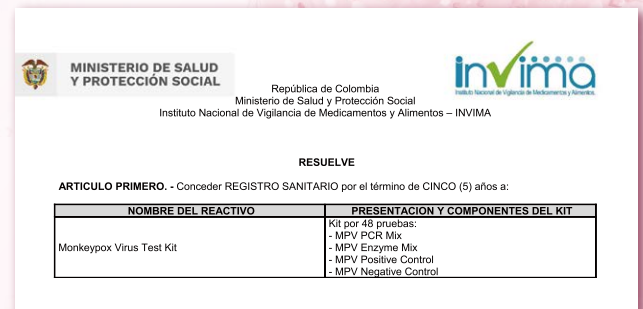
Sanity 2.0 System

- Fully automated from samples to results
- Quick start, under 5 minutes
- Monkeypox virus detection in just 1 hour



Certification

CE and Colombian INVIMA certified



Ordering Information

Cat. No.	Product	Size	Compatible Platform
607104	Lab-Aid Virus RNA Extraction Kit	48 Tests/Kit	Lab-Aid 808 Nucleic Acid Extraction System
606104	Lab-Aid Virus RNA Extraction Kit	48 Tests/Kit	Lab-Aid 824s Nucleic Acid Extraction System
610101	Pathogen Nucleic Acid Extraction Kit (Lab-Aid 896)	96 Tests/Kit	Lab-Aid 896 Nucleic Acid Extraction System
801226	Monkeypox Virus Test Kit	48 Tests/Kit	Real-Time PCR System
608101	Sanity 2.0-Pathogen Nucleic Acid Extraction Kit	24 Tests/Kit	Sanity 2.0 System
801126	Sanity-2 Monkeypox Virus Test Kit	24 Tests/Kit	Sanity 2.0 System

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